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MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

Monthly Activities Report
of the Air Quality Bureau

April, 1979

PLEASE RETURN

T. Highlights:

The State Implementation Plan (SIP) was submitted to the Environmental Protection Agency for approval. This plan is 865 pages in length and divided into the text and six appendices. The Bureau is awaiting word from the EPA as to whether or not this plan will be approved.

The draft of the Network Review Plan was written and circulated among Bureau members for comment. Towards the end of the month the comments were discussed by the Bureau staff and the final plan is being written for submittal to EPA.

House Bill 716 which concerns non-compliance penalties, and House Bill 273, which is the extension of the Montana Air Pollution Study, were signed into law by the Governor. MAPS will extend for two more years, with the final report due in June, 1981.

2. Ambient Air Quality Network

a. Standards Exceeded

Due to termination in position and vacancy, no information is available for April.

b. Air Stagnation Advisories - None in April
c. Laboratory Status - Not received in April

3. Permits and Tax Credits

a. Construction Permits Applied for

U. S. Gypsum, Fergus County, dust collector
Plum Creek, Fortine, hog fuel boiler
Stauffer Chemical, Silver Bow, slag granulation system
W. R. Grace, Libby, car loading equipment
Rehbein Contracting, Mineral Co., asphalt drum mixer
Rehbein Contracting, asphalt drum mixer
Zook Brothers Construction portable gravel crusher
Zook Brothers Construction, Powell County, jaw crusher
Peabody Coal, Big Sky Mine, mining
Century Paving, Fergus Co., Barber Greene asphalt batch plant
Century Paving, Sheridan Co., dryer drum mixer
Zook Brothers Construction, Toole Co., asphalt plant

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3. Construction Permits applied for, cont.

Maronick Construction, Judith Basin Co., gravel crusher
Robert Tindall, Daniels Co., hot mix dryer drum
Earth Builders, Fergus Co., portable asphalt batch plant
Earth Builders, Fergus Co., portable gravel crusher
Meyer Construction, Sheridan & McCone Co., portable gravel crusher

b. Construction Permits Approved

Baltrusch Construction, Beaverhead Co., batch plant
Peter Kiewit Sons, Big Horn, asphalt batch plant
McIntyre Construction, hot mix plant
McIntyre Construction, hot mix plant
Francis Tindall, Fergus Co., gravel crusher
Francis Tindall, Fergus Co., gravel crusher

c. Tax Credits - None

4. Variance Status:

a. Current:

Anaconda Company, SO₂, variance, approved in November
ASARCO, one year variance granted through June 30, 1979

b. New

George Berg, Lewistown, request withdrawn
Lincoln Landfill Board, Lincoln, request withdrawn

5. Enforcement Actions:

Citations

Brand S Lumber, Livingston, wood waste burner rule

6. Tepee Burner and Open Burning:

Tepee burner - number in operation is currently 20

Open burning Permits Issued:

Kalispell Office	1845	Sanders County	150
Cascade County	36	Yellowstone County	486
Lake County	372	Rest of State	1434
Missoula County	499	Total	4822

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7. Source Tests Performed: None in April

8. Field Investigations:

Brand S Lumber, Livingston, citation issued
Brand S Lumber, Livingston, investigation
Lincoln Landfill, Lincoln, investigation
Willow Creek Lumber, Livingston, investigation
Kalmont Lumber, Kalispell, investigation
Klinger Lumber, Kalispell, investigation
Louisiana Pacific, COlumbia Falls, investigation, citation issued
Plum Creek Lumber, Columbia Falls, investigation
Anaconda Aluminum, Columbia Falls, investigation
Stoltze Land & Lumber, Columbia Falls, investigation, citation issued
Montana Lumber & Plywood, Kalispell, investigation
C & C Plywood, Kalispell, investigation
Dept. of Highways batch plant, Kalispell, investigation
Weatherford Crematorium, Kalispell, investigation
Plum Creek Lumber, Fortine, investigation
Kennedy Stevens Lumber, Eureka, investigation
W. R. Grace and Co., Libby, investigation, citation issued
St. Regis Lumber, Libby, investigation
Louisiana Pacific, Trout Creek, investigation, citation issued
Thompson Falls (Pack River) Lumber, Thompson Falls, investigation, citation issued

9. Complaints:

C & C Plywood, Kalispell, smoke, inspected
Individual, Colstrip, dust, investigation
Brand S Lumber, Livingston, soot, investigation
Individual, Kalispell, burning, warning letter sent
Sewage Treatment Plant, Helena, odor, investigation
Rice Transport, Shelby, dust, investigation

10. Data Processing Services:

a. Ambient Data Summary - Attached

b. Emission Inventory Status

Work was done on estimating the cost and time involved in modifying the system to meet the Bureau's needs.

c. Prevention of Significant Deterioration

No significant activities were performed.

d. Modeling

Reviewed the study to determine Good Engineering Practice (GEP) stack height for ASARCO at East Helena. Also attended one meeting on the stack height.

11. Environmental Impact Statements:

None were written during April.

12. Status of Studies, Contracts and Reports:

Network Review - draft is finished, comments received, final to be submitted in May

Poplar River Study continuing to operate; next report due in July

Flathead Environmental Study is operating, report due in July

MAPS final meteorology report due in June

DESPUR - reviewing contractor proposals

Montana Ambient Air Quality Standards - working on final EIS; answering comments

Montana Air Pollution Study - extended for two more years; reports due in June and July for first two years.

Contracts for some of the above studies have been written for the next fiscal year. It is anticipated that all contracts will be finalized by the first of June.

13. Schools and Training:

EPA Enforcement Conference, Helena, April 24

14. Public Hearings and Meetings:

a. Public Hearings held - None

b. Meetings Attended:

Governor's Office, Helena, Brand S Lumber

City Manager, Bozeman, regarding street dust

Sanitarians Conference, Helena

Lincoln Landfill Board, Lincoln, regarding variance

Brand S Lumber, Helena, regarding variance request

Airshed meeting, Anaconda

Kalispell fire department, Kalispell, regarding burning

Lt. Governor, Helena, regarding Poplar River

Spring Creek proposal for monitoring, Helena

EPA, Helena, regarding review of emergency plans

c. Intra-staff meetings:

Staff regarding network review

Bureau staff meetings

Bureau staff meeting regarding MAPS

Bureau staff regarding budget

15. Public Information Requests:

Three interview requests regarding open burning and Brand S

Miscellaneous air quality information sent to school students for term papers

Continued to receive requests for ambient air standards EIS

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

MONTHLY SUMMARY OF AIR QUALITY DATA Page 1 of 2
March 1979

Pollutant: Total Suspended Particulate

Units: micro gram/cubic meter

AREA		HIGH READING		ARITHMETIC AVER.		Comments	
MOCCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Holes, or Data	
140	Moroni-Decker Big Horn Co. Warren Ranch Big Horn Co. Lockwood School Billings Kings Billings City Hall Billings Grand Ave. Sch. Centerville Park Billings Laurel Jr. High Laurel Hospital Billings Fire Station #1 Great Falls Klanian's Park Great Falls Hilltop Anacorda Lincoln School Anacorda Floral Park Butte	41 13 49 288 302 246	79 42 155 288 302 246	79 100 40 85 77 48	34 12 3 2 3 3	3	
141	Hospital Billings Great Falls Fire Station #1 Great Falls Klanian's Park Great Falls Hilltop Anacorda Lincoln School Anacorda Floral Park Butte	111 38 59	111 155 303	111 30 50	34 30 50	3 3 3	1 exc Fed Pri Std 2 exc Fed Sec Std 1 exc Fed Pri Std 3 exc Fed Sec Std
142	111 38 303 112	111 59 303 112	111 59 303 112	111 30 50 59	34 30 50 3	3 3 3 3	1 exc Fed Pri Std 2 exc Fed Sec Std 1 exc Fed Pri Std 3 exc Fed Sec Std

Pollutant: Total Suspended Particulate

Units: micro gram/cubic meter

AREA		HIGH READING		ARITHMETIC AVER.		Comments	
MOCCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Holes, or Data	
142	McKinley Res. Granite Co. Gr. Cnty Res. Butte Greeley School Butte Hebgen Park Butte Tierney Res. Silver Bow Co. Microwa Ferguson Co. 212 E. Pacific East Helena Cosgrove Bldg. Helena Linn Dawson Co. Lane Deer Rosebud Co. Fort Peck Custer Co. BN Site Colstrip McRae Site Colstrip Border Site Scobery	80 181 158 225 34 89 92 211	80 181 196 225 73 89 124 211	142 72 95 85 31 32 78 64	30 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3	1 exc Fed Sec Std 1 exc Fed Sec Std 5 exc Fed Sec Std
143	Linn Dawson Co. Lane Deer Rosebud Co. Fort Peck Custer Co. BN Site Colstrip McRae Site Colstrip Border Site Scobery	17 6 11 40 21 10	28 10 12 40 21 12	28 34 58 138 9 80	13 4 7 18 9 7	3 3 3 1 3 3	

* - Data not available at time of report.

Pollutant: Total Suspended Particulate

Units: micro gram/cubic meter

AREA		HIGH READING		ARITHMETIC AVER.		Comments	
MOCCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Holes, or Data	
144	Anders Res. Great Falls Trailer - NAAC Flathead Co. Ronan Lake Co. Potowomie Lake Co. Moose City Flathead Co. Libby - Brown Lolo Kalispell Airport Flathead Co. Kalispell-Strom Flathead Co. Courthouse Roof Missoula 267 Lion's Park Missoula Rose Park Missoula J. B. Field Missoula Co. Hoerner Mld.#1 Missoula Co. Hoerner Mld.#2 Missoula Co. Hoerner Mld.#3 Missoula Co.	393 37 50 123 75 15 523 120 343 343 267 419 317	393 59 59 170 75 40 1384 120 343 92 267 419 317	375 26 59 170 44 10 139 66 92 101.5 138.9 119.6	100 3 3 59 44 1 3 2 3 3 3 3	3 2 2 3 2 1 2 2 2 2 2 2	1 exc Fed Pri Std 2 exc Fed Sec Std 1 exc Fed Pri Std 2 exc Fed Pri Std 1 exc Fed Pri Std 2 exc Fed Sec Std 2 exc Fed Sec Std 2 exc Fed Pri Std 2 exc Fed Sec Std 2 exc Fed Pri Std 2 exc Fed Sec Std 2 exc Fed Sec Std
144	Klanian's Park Great Falls coarse fine 13.6	25.2 13.6	104.4 20.9	104.4 14.4	17.5 3	3	
142	Linncon School Anacorda coarse fine 9.8	3.7 41.1	12.4 41.9	75.7 16.7	5.2 2	2	
143	Hebgen Park Butte coarse fine 40.7	30.6 40.7	59.1 64.9	17.3 25.3	2 2	2	
144	Floral Park Butte coarse fine 36.1	18.5 36.1	24.9 36.1	24.9 23.3	13.3 2	2	
143	Border Site Scobery coarse fine 9.8	3.9 41.0	74.9 20.8	13.0 10.0	2 2	2	
144	Floral Park Butte coarse fine 36.1	18.5 36.1	24.9 36.1	24.9 23.3	13.3 2	2	
143	Border Site Scobery coarse fine 9.8	3.9 41.0	74.9 20.8	13.0 10.0	2 2	2	
144	Courthouse Roof Missoula coarse fine 40.4	72.7 55.6	72.7 55.6	43.1 24.9	2 2	2	
143	Lion's Park Missoula coarse fine 79.3	184.2 183.2	184.2 102.6	88.2 40.7	2 2	2	

Respirable Particulate-Sampler

Units: micro grams/cubic meter

AREA		HIGH READING		ARITHMETIC AVER.		Comments	
MOCCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Holes, or Data	
141	Klanian's Park Great Falls coarse fine 13.6	25.2 21.3	104.4 20.9	104.4 14.4	17.5 3	3	
142	Linncon School Anacorda coarse fine 9.8	3.7 41.1	12.4 41.9	75.7 16.7	5.2 2	2	
143	Hebgen Park Butte coarse fine 40.7	30.6 40.7	59.1 64.9	17.3 25.3	2 2	2	
144	Floral Park Butte coarse fine 36.1	18.5 36.1	24.9 36.1	24.9 23.3	13.3 2	2	
143	Border Site Scobery coarse fine 9.8	3.9 41.0	74.9 20.8	13.0 10.0	2 2	2	
144	Courthouse Roof Missoula coarse fine 40.4	72.7 55.6	72.7 55.6	43.1 24.9	2 2	2	
143	Lion's Park Missoula coarse fine 79.3	184.2 183.2	184.2 102.6	88.2 40.7	2 2	2	

MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES
MONTHLY SUMMARY OF AIR QUALITY DATA

Pollutant: Miscellaneous Continuous Data

Units: ppm

AREA		HIGH READING		ARITHMETIC AVER.		Comments
ACCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data
140	Carbon Monoxide Billings			*		
141	10th Ave. So., Great Falls			*		
142	Alpine West Butte	6.7	16.7	16.0	1.77	3
	Hebgen Park Butte			*		
	Lincoln School Anaconda			*		
144	Met Junction Jct., Missoula			*		
	Lion's Park Missoula	11.5	24.3	24.3	3.83	3
142	Hydrocarbons Hebgen Park Butte			*		
	Lincoln School Anaconda			*		
144	Lion's Park Missoula			*		
140	Central Park Billings	0.040	0.065	.110	0.017	3
142	Lincoln School Anaconda	0.060	0.060	0.060	0.060	3
	Hebgen Park Butte	0.058	0.058	0.077	0.018	3
144	Lion's Park Missoula	0.063	0.063	0.076	0.010	3

* Data unavailable at time of report.

Pollutant: Miscellaneous Continuous Data

Units: ppm

AREA		HIGH READING		ARITHMETIC AVER.		Comments
ACCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data
	Nitrogen Oxide					
140	Central Park Billings			*		
142	Hebgen Park Butte			*		
144	Lion's Park Missoula			*		
140	Central Park Billings	0.055	0.225	0.225	0.017	3
142	East Stack East Helena	0.07	0.33	0.33	0.01	3
	McKeevies East Helena	0.39	0.72	0.72	0.02	3
	Brown Ranch East Helena			*		
	Interstate Jct. East Helena	1.51	2.30	2.75	0.086	3
	McL Creek Anaconda	1.62	1.62	1.62	0.03	3
	Lincoln School Anaconda	0.80	1.03	1.03	0.04	3
	Hebgen Park Butte	0.092	0.092	0.092	0.011	3

Pollutant: Miscellaneous Indicators

Units

AREA		HIGH READING		ARITHMETIC AVER.		Comments
ACCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data
141	Dustfall-tons/mi. Metallurgical Plants Great Falls	10.77	10.77	10.77	10.77	1
	Fire Station #1 Great Falls	37.20	37.20	37.20	37.20	1
140	Sulfation Rate 33rd NE Coop Billings			*		
	E of Laurel Billings			*		
	Hi-Ball Trucking Billings			*		
141	Stockade Track Great Falls			*		
	Philtos Ref N. Great Falls			*		
	Philtos Ref E. Great Falls			*		
142	Mt. Isa East Helena	0.14	0.56	0.56	0.36	3
	212 E. Pacific East Helena	0.19	0.37	0.37	0.28	3
	East Stack Sta. East Helena	0.21	0.47	0.47	0.34	3
	Broadway Ranch East Helena	0.10	0.27	0.27	0.17	3
	2500 Prickly Pear East Helena	0.13	0.31	0.31	0.21	3

Pollutant: Miscellaneous Indicators

Units:

AREA		HIGH READING		ARITHMETIC AVER.		Comments
ACCR	Site Location	Current Month	Year-to-Date	Running Year	Year-to-Date	No. of Mon. of Data
144	Fluoride Papers Gotham - 800					
	Flathead Co.	1.20	1.20	1.20	0.81	3
144	Anacinda South Flathead Co.	4.00	5.90	5.90	4.02	3
	Glacier Park #1				**	
	Glacier Park #2				**	
	Glac. Nat Park				**	
	Glacier Park #9				**	
	Glac. Nat Park				**	
144	Anacinda South Flathead Co.					
	Trailer - NAC				**	
	Flathead Co.	0.69	1.68	1.68	1.03	3
	Glacier Park #1	0.11	0.86	0.86	0.49	2
	Glacier Park #2				**	
	Glac. Nat Park	0.16	0.54	0.54	0.35	2
	Glacier Park #9	0.24	0.26	0.26	0.25	2
143	Glac. Nat Park Bubble-bubble-ppm Border site	0.0	0.0	0.0	0.0	3
143	Scobey NO2 Bubbler-ppm Border site	0.0	0.01	0.01	0.001	3

* No valid sample.

